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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,820	04/27/2001		Toshiaki Yamada	YAMAH5.895AP	2189
20995	7590	09/12/2003			
		NS OLSON & E	EXAMINER		
2040 MAIN FOURTEEN	TH FLOO	OR	VANAMAN, FRANK BENNETT		
IRVINE, CA	A 92614		ART UNIT	PAPER NUMBER	
				. 3618	
				DATE MAILED: 09/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			_	≤ 1						
. *		Application No.	Applicant(s)							
		09/830,820	YAMADA ET AL.							
	Office Action Summary	Examiner	Art Unit							
•		Frank Vanaman	3618							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
	ORTENED STATUTORY PERIOD FOR REPLY	/ IQ GET TO EYDIDE 3 M	MONTH(S) FROM							
THE I - Exter after - If the - If NO - Failur - Any re	MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a within the statutory minimum of th ill apply and will expire SIX (6) MO cause the application to become A	reply be timely filed irty (30) days will be considered timel NTHS from the mailing date of this co BANDONED (35 U.S.C.§ 133).	y. ommunication.						
1)⊠	Responsive to communication(s) filed on <u>07 J</u>	uly 2003								
2a)⊠	This action is FINAL . 2b) Thi	s action is non-final.								
3)	Since this application is in condition for allowa closed in accordance with the practice under the condition of the condition			e merits is						
•	on of Claims		•							
•	Claim(s) <u>10-40</u> is/are pending in the applicatio	•								
	4a) Of the above claim(s) <u>15-20,27-30 and 37-4</u>	10 is/are withdrawn from	consideration.							
·	Claim(s) 10-14 is/are allowed.									
·	Claim(s) 21 and 31 is/are rejected.									
·	Claim(s) <u>22-26 and 32-36</u> is/are objected to.									
-	Claim(s) are subject to restriction and/or on Papers	election requirement.								
9) 🗌 -	The specification is objected to by the Examiner	•								
10) 🔲 🗆	Γhe drawing(s) filed on is/are: a)□ accep	ted or b)☐ objected to by	the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
11)⊠ The proposed drawing correction filed on <u>07 July 2003</u> is: a)⊠ approved b)□ disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action.										
•	The oath or declaration is objected to by the Exa	aminer.								
Priority u	nder 35 U.S.C. §§ 119 and 120									
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).							
a)[☐ All b)☐ Some * c)☐ None of:									
	1. Certified copies of the priority documents	s have been received.								
	2. Certified copies of the priority documents	s have been received in A	Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
	cknowledgment is made of a claim for domestic	·		application).						
a	The translation of the foreign language protocknowledgment is made of a claim for domesti	visional application has t	peen received.	.,						
Attachment	•									
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper Not Informal Patent Application (PT							

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Status of Application

1. Applicant's amendment, filed July 7, 2003, has been entered in the application. Claims 10-40 are pending, claims 15-20, 27-30 and 37-40 are withdrawn from consideration.

Election/Restriction

2. Applicant's further arguments concerning the restriction requirement (made after the finality of the restriction requirement) have been carefully considered. Firstly, Applicant has made no arguments that the inventions are patentably indistinct, and as such, there is no evidence that the statutory basis for a restriction has not been satisfied. As regards the cited portions of the MPEP, the examiner acknowledges this citation, but further notes that applicant has not presented any evidence that the examination of multiple inventions, rather than the examination of a single invention, would not increase the burden on the examiner. The restriction requirement was made final in the previous office action and remains so.

Drawings

3. Applicant's submission of proposed drawing corrections is noted. The proposed corrected drawings have not been presented in the form of a pen-and-ink sketch showing changes in red ink or with the changes otherwise highlighted (MPEP § 608.02(v)), however they have been approved in that the changes are of such a nature as to be easily observed.

Claim rejections 35 USC 103

- 4. The pertinent portions of 35 USC §103 can be found in a previous office action.
- 5. Claims 21 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Early et al. (US 4,961,151) in view of Moroto et al. (US 5,892,346). Early et al. teach a power system for a vehicle including a load in the form of a propulsion device (16), three separate power supply sources (10, 12, 14) including batteries (e.g., 12, 14) and a fuel cell (10), each being configured to supply operating power to the load to drive

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the vehicle, and being connectable in various configurations (see tables I through IV), a controller (40) which can determine available power (through sensing devices 24, 28, 30) and having means to connect and disconnect the sources to the load (18, 18', 20, 20', 22, 22'). The reference to Early et al. fails to teach the controller as further being capable of calculating a travel range. Moroto et al. teach a vehicle configuration (having either a single electric source, or being a hybrid vehicle), which is capable of determining a battery state of charge and consumption of battery capacity based on driving, and determining a range at beyond which charging of the battery would be required (see figs. 4-7 and 9, for example). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide a distance-to-next-charge (i.e., range) computing portion as taught by Moroto et al. to the vehicle power system taught by Early et al., monitoring a battery source, for the purpose of insuring the operator is aware of the possible range of the vehicle prior to attempting a trip. The reference of Moroto et al. fails to specifically teach the monitoring of a pair of battery sources, however the duplication of existing parts for the purpose of increasing an effect, in this case monitoring a second separate battery source, as Early et al. teach a pair of battery sources rather than a single source, would not be deemed beyond the skill of the ordinary practitioner, for the purpose of insuring that both sources are monitored, allowing an accurate representation of the capacity of the vehicle.

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As regards the specific provision of a vehicle body, the Examiner hereby takes Official Notice that it is very old and well known to provide a body on a vehicle, for example, for the purpose of accommodating the passengers and it would not be at all beyond the skill of the ordinary practitioner to include a body portion to the vehicle taught by Early et al. as modified by Moroto et al. in order to accommodate the driver and passengers.

Allowable Subject Matter

6. Claims 10-14 are allowed.

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7. Claim 22-26 and 32-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's comments, filed with the amendment, have been carefully considered. As regards the reference of Moroto et al. and the analysis of a capacity consumption ratio of a fuel cell, the examiner agrees that Moroto et al. fail to specifically teach such a limitation, and further notes that the claims directed to this subject matter are no longer being rejected by the combination of the references to Early et al. and Moroto et al. (see above). As regards the provision of first and second sources, note that Early teaches three sources (10, 12, 14), and while Moroto teaches only a single battery analysis mechanism, it is not deemed to be beyond the skill of the ordinary practitioner to duplicate existing taught elements and or functions, such as the mechanism taught by Moroto et al. to analyze the remaining capacity of a single battery, for example to analyze and determine the remaining capacity of a second battery, to accommodate a pair of batteries, which may correspond to first and second different power sources, to the breadth claimed.

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Vanaman whose telephone number is 703-308-0424. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is 703-308-1113.

As of May 1, 2003, any response to this action should be mailed to:

Mail Stop

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

Or faxed to the Office-wide central fax:

703-872-9306

The previously used fax numbers may still be used:

703-305-3597; 703-305-7687;

although they now connect to the central fax location.

F. VANAMAN
Primary Examiner
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